

## Abstract

The invention relates to polyfunctional polymer monolayers (polymer brushes) comprising a multitude of polymer chains attached to a surface, with each polymer chain comprising a multitude of units carrying at least one functional group which allows the interaction of the polymer chain with a sample molecule.

1. A polyfunctional polymer monolayer (polymer brush) comprising a multitude of polymer chains attached to a surface, with each polymer chain comprising a multitude of units carrying at least one functional group which allows the interaction of the polymer chain with a sample molecule.